Phone: (803) 737-0800 Fax: (803) 737-0801

March 23, 2005

Mr. Charles L.A. Terreni Chief Clerk/Administrator South Carolina Public Service Commission 101 Executive Center Dr., Suite 100 Columbia, SC 29210

Columbia, S.C. 29211

South Carolina Electric & Gas Company - Annual Review Re:

Docket No. 2005-2-E

Dear Charles:

Enclosed for filing please find the original and twenty-six (26) copies of the Direct Testimony of A.R. Watts and Jacqueline R. Cherry in the above referenced matter. Please date stamp the extra copies enclosed and return it to me via our courier.

Also, we have served same on all parties of record and enclose a Certificate of Service to that effect.

Please let me know if you have any questions.

Sincerely,

Shannon B. Hudson

Shanson Hudson

SBH/cc

cc:

**Enclosures** 

Mitchell Willoughby, Esquire

John F. Beach, Esquire Scott Elliott, Esquire

Damon E. Xenopoulos, Esquire

## THE OFFICE OF REGULATORY STAFF DIRECT TESTIMONY AND EXHIBITS

OF

A.R. WATTS



DOCKET NO. 2005-2-E
South Carolina Electric & Gas Company
Annual Review

1 2 3 4 5 6	DIRECT TESTIMONY OF A.R. WATTS ON BEHALF OF THE SOUTH CAROLINA OFFICE OF REGULATORY STAFF DOCKET NO. 2005-2-E					
7	Q.	PLEASE STATE YOUR NAME, BUSINESS ADDRESS AND				
8		OCCUPATION.				
9	A.	My name is A.R. "Randy" Watts. My business address is 1441 Main				
0		Street, Suite 300, Columbia, South Carolina 29201. I am employed by the State of				
11		South Carolina as Program Manager in the Electric Department for the Office of				
12		Regulatory Staff ("ORS").				
13	Q.	PLEASE STATE YOUR EDUCATIONAL BACKGROUND AND				
14		EXPERIENCE.				
15	A.	I received a Bachelor of Science Degree in Electrical Engineering from				
16		the University of South Carolina in Columbia in 1976. I was employed at that				
17		time by the Public Service Commission of South Carolina ("Commission") as a				
18		Utilities Engineer in the Electric Department and was promoted to Chief of the				
19		Electric Department in August 1981. Subsequent to internal Commission				
20		restructuring, my position was redesignated Chief of Electric in October 1999. I				
21		remained in that role until transferring to my current position with ORS in				
22		January 2005. I have testified on numerous occasions before the Commission in				
23		conjunction with fuel clause, complaint, territorial assignment, Siting Act and				
24		general rate proceedings.				

1	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS					
2		PROCEEDING?					
3	Α.	The purpose of my testimony is to set forth ORS findings and					
4		recommendations resulting from our examination of South Carolina Electric &					
5		Gas Company's ("Company") fuel expenses and power plant operations used in					
6		the generation of electricity to meet customer requirements.					
7	Q.	WHAT AREAS WERE ENCOMPASSED IN YOUR REVIEW OF THE					
8		COMPANY'S FUEL EXPENSES?					
9	A.	First, ORS reviewed the Company's responses to our Data Requests (Sets					
10		No. 1 and No. 2) which encompassed approximately forty-eight questions. In					
11		preparation for this proceeding ORS reviewed the Company's monthly fuel					
12		reports including power plant performance data, major unit outages and					
13		generation statistics. Comparisons and analyses of actual to original estimates					
14		were performed for both megawatt hour sales and fuel costs. ORS analyzed the					
15		Company's fuel cost projections and reviewed the Adjustment for Fuel Costs					
16		Tariff.					
17	Q.	WHAT ADDITIONAL STEPS WERE TAKEN IN ORS'S REVIEW OF					
18		THE COMPANY'S REQUEST IN THIS PROCEEDING?					
19	<b>A.</b>	In addition, ORS met with various representatives of the Company					
20		including members of the Fuel Procurement Department, Engineering Operations					
21		Management, and the Resource Planning Department to discuss the Company's					

procurement procedures, operations plans, and forecasting methodologies. ORS

1		also visited one of the Company's major coal-fired steam plants to view
2		maintenance work in progress.
3		A review of filings by other southeastern utilities with similar purchasing
4		and transportation needs was performed regarding their fuel costs. On a daily
5		basis, ORS keeps abreast of the coal industry through industry and governmental
6		publications regarding activity in the coal markets.
7	Q.	DID ORS EXAMINE THE COMPANY'S PLANT OPERATIONS FOR
8		THE REVIEW PERIOD?
9	A.	Yes. ORS reviewed the Company's operation of its generating facilities,
10		including special attention to the nuclear plant operations to determine if the
11		Company made reasonable efforts to minimize fuel costs. As shown by Exhibit
12		ARW-1, ORS reviewed the availability of the Company's major power plants.
13		Page one of Exhibit ARW-1 shows the monthly availability of the Company's
14		generating units stated in percentages. The capacity factors on page two of
15		Exhibit ARW-1 indicate the monthly utilization of each unit in producing power.
16	Q.	PLEASE EXPLAIN HOW ZERO AVAILABILITY IS REPRESENTED ON
17		YOUR EXHIBIT ARW-2.
18	A.	Exhibit ARW-2 shows the Fossil and Nuclear Unit Outage Report for the
19		Company. Locations with zero availability as well as those locations having
20		months with less than 100% availability led us to investigate reasons for such
21		occurrences. As shown on Exhibit ARW-2, ORS obtained Company outage
22		reports explaining the various reasons for the unavailability or outages. As an
23		example, Exhibit ARW-1 shows McMeekin had zero availability in October

1		2004. Exhibit ARW-2 explains the reason for the zero availability in October				
2		2004. McMeekin No. 1 had an outage between September 24, 2004 and				
3		November 21, 2004 which was the period during which the installation of the				
4		over-fired air system occurred.				
5	Q.	WOULD YOU EXPLAIN THE OTHER OUTAGES AS OUTLINED ON				
6		EXHIBIT ARW-2?				
7	<b>A.</b>	Yes. These indicate major unit outages in excess of 100 hours or greater				
8		during the review period. Although not included in this Exhibit, outages less than				
9		100 hours were found to be reasonable by ORS.				
10	Q.	PLEASE ADDRESS THE OUTAGES AT VC SUMMER NUCLEAR				
11		STATION.				
12	A.	Exhibit ARW-2 page two shows two forced outages experienced during				
13		the review period. The first occurred between March 30, 2004 and April 11, 2004				
14		and the second occurred between December 6, 2004 and December 9, 2004.				
15		ORS found that the Company took appropriate corrective action with respect to				
16		these outages, and there were no "NRC" fines associated with either of these				
17		outages.				
18	Q.	WHAT WERE THE RESULTS OF YOUR ANALYSIS OF THE				
19		COMPANY'S PLANT OPERATIONS FOR THE PERIOD UNDER				
20		REVIEW?				
21	<b>A.</b>	ORS's review of the Company's operation of its generating facilities				
22		resulted in a finding that the Company made reasonable efforts to maximize uni				
23		availability and minimize fuel costs.				

1	Q.	DID ORS REVIEW THE GENERATION MIX UTILIZED BY THE			
2		COMPANY DURING THE REVIEW PERIOD?			
3	Α.	Yes. Exhibit ARW-3 shows the generation mix for the review period by			
4		generation type. As shown in this exhibit, the higher cost combined-cycle plants,			
5		which include both Urquhart and Jasper, contributed higher percentage generation			
6		during the summer or peak months and lower percentage generation during the			
7		non-summer period.			
8	Q.	WHY DID YOU REFER TO THE COMBINED CYCLE PLANTS AS			
9		HAVING HIGHER COSTS?			
10	<b>A.</b>	Exhibit ARW-4 shows the average fuel costs by major generating plants			
11		on the Company system for the review period and the megawatt hours produced			
12		by those respective plants. The chart shows the lowest average fuel costs for VC			
13		Summer Nuclear Station being 0.50 cents/kwh and the highest average fuel costs			
14		for the Jasper combined cycle plant being 5.23 cents/kwh. The Company utilizes			
15		economic dispatch which generally tends to follow the average fuel cost with the			
16		lower cost units being dispatched first.			
17	Q.	HAS ORS REVIEWED THE ACCURACY OF THE COMPANY'S			
18		FORECAST?			
19	A.	Yes. As shown in Exhibit ARW-5, the Company's actual sales versus			
20		forecasted sales varied by only 1.26% during the review period. In addition,			
21		Exhibit ARW-6 shows the monthly variance between projected and actual fuel			

cost factors, and provides the cumulative variance of 6.28%.

1	Q.	DID ORS REVIEW ADDITIONAL INFORMATION IN DETERMINING					
2		THE REASONABLENESS OF THE COMPANY'S FORECAST?					
3	Α.	Yes. ORS reviewed the forecasted maintenance schedules for the					
4		Company's major generating units as well as the Company's fuel price forecast					
5		for Nuclear, Coal, and Natural Gas. ORS also reviewed the PROSYM® computer					
6		model inputs and results utilized by the Company in projecting fuel costs.					
7		PROSYM <sub>®</sub> is a widely accepted computer model utilized by numerous utility					
8		companies throughout the country for fuel cost projections. Based on that review					
9		ORS believes the Company's forecast to be reasonable.					
10	Q.	WHAT OTHER REVIEWS HAS ORS UTILIZED IN MAKING ITS					
11		DETERMINATIONS IN THIS PROCEEDING?					
12	A.	Exhibit ARW-7 shows the ending balances of over and under collections					
13		of fuel costs beginning July 1979. The Company has experienced both over and					
14		under recovery balances throughout the approximately fifteen years.					
15	Q.	WHAT OTHER SOURCES DOES ORS USE IN DETERMINING THE					
16		REASONABLENESS OF THE COMPANY'S REQUEST?					
17	A.	ORS routinely 1) reviews private and public industry publications as well					
18		as those available on the Energy Information Administration's (EIA) website; 2)					
19		conducts meetings with Company personnel; 3) conducts meetings with					
20		representatives of large industrial users; 4) attends industry conferences; and 5)					
21		reviews fuel information as filed monthly by electric generating utilities on Form					
22		423 with the Federal Government. An example of EIA data reviewed is included					
23		on Exhibit ARW-8, which shows the upward trend, particularly for Central					

1		Appalachia coal, of the average weekly coal commodity spot prices over the three					
2		year period ending March 11, 2005. South Carolina Electric & Gas Company					
3		generally obtains its coal from Central Appalachia supply.					
4	Q.	DOES ORS HAVE A RECOMMENDATION FOR THE FUEL					
5		COMPONENT IN THIS PROCEEDING?					
6	Α.	Yes. ORS recommends the fuel component in this proceeding be set at					
7		2.256 cents/kwh for the period May 2005 through April 2006.					
8	Q.	PLEASE EXPLAIN THE BASIS FOR YOUR PROPOSED BASE FUEL					
9		LEVEL COMPONENT.					
10	Α.	Our analysis indicates a major driver for the upward pressure on fuel costs					
11		is the significant increases in delivered cost of coal. In addition, with the					
12		increased utilization of the Company's combined-cycle units, the comparatively					
13		higher cost of natural gas is playing an increasing role in total fuel expenses.					
14		Exhibit ARW-9 shows the Company's projected average total cost of coal per ton					
15		for the calendar years 2005, 2006 and 2007. This Exhibit indicates a fairly level					
16		cost per ton for the first two years followed by higher anticipated costs in 2007 as					
17		old contracts expire and new contracts become effective. Exhibit ARW-10 shows					
18		the calculation of the 2.256 cents/kwh fuel base component. The Audit					
19		Department of ORS provided the under-recovered balance of \$37.949 million.					
20	Q.	DOES ORS HAVE ANY RECOMMENDATIONS REGARDING					
21		TREATMENT OF THIS LEVEL OF UNDER RECOVERY?					
22	<b>A.</b>	Yes. ORS recommends that an amount equal to the under recovery be					
23		levelized over a two year period. This recommendation is based on several					

factors. As mentioned previously, the Company's projected total average coal
costs for 2005 and 2006 are relatively level and then increase in 2007. The third
year is accompanied by more uncertainty in the projections. ORS's
recommendation will help stabilize the factor and tend to minimize fluctuations
while affording the opportunity to review costs and operational data at succeeding
fuel review proceedings.
While ORS recognizes that S.C. Code Ann. § 58-27-865(B) indicates that
any under recovery should be recovered during the next twelve months, ORS also
recognizes that the Commission previously allowed an amortization of an under
recovery over a two year period. See Commission Order No. 2001-397 issued in
Docket No. 2001-2-E, SCE&G - Annual Review of Base Rates for Fuel Costs. In
addition, ORS is charged with the duty to represent the public interest of South
Carolina pursuant to S.C. Code §58-4-10(B) (added by Act 175), and ORS
believes such a two year levelizing period would serve the public interest. S.C.
Code §58-4-10(B)(1) through (3) reads in part as follows:
" 'public interest' means a balancing of the following:
<ul><li>(1) concerns of the using and consuming public with respect to public utility services, regardless of the class of customer;</li><li>(2) economic development and job attraction and retention in South Carolina; and</li></ul>
(3) preservation of the financial integrity of the State's public utilities and continued investment in and maintenance of utility facilities so as to provide reliable and high quality utility services."
This two year levelization period would balance concerns of the using public
while preserving the financial integrity of the Company. ORS also believes a two
year levelization period would not inhibit economic development.

1		ORS also recommends that the first dollars recovered in the succeeding			
2		twelve months beginning May 2005 be applied to the under recovery so that in the			
3	next fuel proceeding for the Company any under recovery will be for the period				
4	May 2005 to May 2006. This will serve to protect the integrity of the statutory				
5		scheme as well as the financial integrity of the Company.			
6		For the reasons set forth above, ORS recommends that an amount equal to			
7		the under recovery be levelized over a two year period.			
8	Q.	DOES THIS CONCLUDE YOUR TESTIMONY?			
9	A.	Yes, it does.			

## SOUTH CAROLINA OFFICE OF REGULATORY STAFF

## SOUTH CAROLINA ELECTRIC & GAS COMPANY ANNUAL REVIEW OF BASE RATES FOR FUEL COST ACTUAL REVIEW PERIOD: MARCH 1, 2004 – JANUARY 31, 2005

**DOCKET NO. 2005-2-E** 

## A. RANDY WATTS TESTIMONY

## **EXHIBIT INDEX**

## EXHIBIT NO.

## EXHIBIT TYPE

PREPARED BY

ARW-1	Power Plant Performance Data	ORS
	Report – Availability/Capacity	
	Factors	
ARW-2	Fossil/Nuclear Unit Outage Report	ORS
	(100 Hrs. or Greater Duration) for	
	SCE&G	
ARW-3	Generation Mix Report (March	ORS
	2004 – January 2005) for SCE&G	
ARW-4	Generation Statistics for Major	ORS
	Plants (March 2004 – January	
	2005) for SCE&G	
ARW-5	SC Retail Comparison of	ORS
	Estimated to Actual Energy Sales	
	for SCE&G	
ARW-6	SC Retail Comparison of	ORS
	Estimated to Actual Fuel Cost for	
	SCE&G	
ARW-7	History of Cumulative Recovery	ORS
	Account Report for SCE&G	7, 6, 10, 4, 1
ARW-8	Average Weekly Coal Commodity	Platts Coal Outlook
	Spot Prices	(From EIA website)
ARW-9	SCE&G Forecasted Coal Costs	ORS
ARW-10	Base Fuel Rate Projected Period:	ORS
	May 2005-April 2006 for SCE&G	

EXHIBIT ARW-1 Page 1 of 2

Office of Regulatory Staff
Power Plant Performance Data Report
Availability Factors (Percentage) for
South Carolina Electric and Gas Company

JAN 2005	95.2 88.1 90.7	89.6 96.8 94.2 100.0 98.8 89.8	87.5 94.4 94.4 94.4 100.0 100.0 89.1	100.0
DEC 2004	99.2 90.0 100.0	100.0 41.4 90.8 100.0 100.0 100.0	92.1 100.0 100.0 100.0 100.0 100.0 100.0	89.7
NOV 2004	92.0 100.0 41.2	29.7 0.0 98.1 100.0 65.9 81.8	70.9 100.0 100.0 100.0 100.0 100.0 100.0	100.0
OCT 2004	63.9 76.5 84.1	0.0 0.0 100.0 71.4 71.4 89.2	77.0 77.4 76.7 76.6 77.4 77.4 61.3	100.0
SEP 2004	99.0 93.9 82.2	79.9 56.3 96.1 100.0 87.5 100.0	100.0 100.0 100.0 100.0 100.0 100.0 100.0	100.0
AUG 2004	100.0 87.9 100.0	100.0 91.4 100.0 91.9 100.0 97.4	96.9 100.0 100.0 100.0 98.5 100.0 100.0	100.0
JUL 2004	91.3 100.0 93.7	100.0 100.0 100.0 93.6 82.5 100.0	96.1 100.0 99.9 99.1 100.0 100.0 100.0	0.001
JUN 2004	100.0 95.5 89.2	97.5 100.0 100.0 95.2 98.4 100.0	97.6 99.9 100.0 99.9 100.0 100.0 100.0	100.0
MAY 2004	100.0 85.4 63.0	95.6 86.9 92.5 82.3 72.5 54.4 100.0	83.3 100.0 99.7 100.0 98.7 80.6 80.6 80.6	100.0
APR 2004	100.0 100.0 100.0	83.7 96.0 76.7 80.5 100.0 0.0	NA N	63.8
MAR 2004	69.7 69.0 89.5	83.1 96.8 100.0 95.4 95.1 0.0	NA N	95.7
MW RATING	105 116 175	173 125 125 94 350 350 615	2465 165 165 165 385 233 241	966 644 322
UNIT	1 2 2	7 - 7 8 - 7	1 2 8 4 5 1 9 2	
PLANT	CANADYS	CANADYS McMEEKIN McMEEKIN URQUHART WATEREE WATEREE	FOSSIL TOTALS JASPER CC JASPER CC JASPER CC JASPER CC URQUHART CC URQUHART CC URQUHART CC	V.C. SUMMER (SCE&G) (SCPSA)*

<sup>\*</sup> Represents South Carolina Public Service Authority's 1/3 ownership of VC Summer Note 1: CC designates Combined-Cycle units

Note 2: Urquhart units 5&1 and 6&2 are two units

## South Carolina Electric and Gas Company Power Plant Performance Data Report Capacity Factors (Percentage) for Office of Regulatory Staff

g. w Pd.)	83.8 78.5 73.9 70.3 63.4 78.3 84.4 82.4 66.5	77.4	0.96	
Avg. (Review Pd.)	82	77	<b>.</b>	EXHIBIT ARW-1 Page 2 of 2
JAN 2005	84.8 69.3 71.5 78.9 90.5 76.1 90.9 92.9 84.8	85.3	14.0 18.0 22.0 28.0 13.0 13.0 5.0 5.0	
DEC 2004	92.5 79.0 82.3 95.0 31.6 74.1 94.9 94.6 87.8	87.9	12.0 17.0 15.0 10.0 0.0 0.0 0.0 0.0	
NOV 2004	90.1 94.7 19.6 16.1 0.0 78.5 98.2 62.2 71.2	70.4	8.0 14.0 13.0 8.0 2.0 1.0 0.0 0.0	
OCT 2004	57.9 68.9 79.5 0.0 0.0 85.4 62.5 68.2 79.6	9.89	13.0 9.0 5.0 6.0 2.0 2.0 0.0 0.0	
SEP 2004	85.0 75.6 73.6 69.0 50.3 70.2 86.0 77.0 89.2	82.8	17.0 22.0 13.0 13.0 3.0 4.0 5.0	
AUG 2004	90.5 73.2 91.3 89.0 79.6 83.3 81.5 94.1 91.8	9.68	32.0 38.0 30.0 25.0 5.0 6.0 8.0 8.0	
JUL 2004	85.3 93.3 87.7 93.6 93.1 88.5 84.9 76.0 92.8	89.5	41.0 52.0 38.0 34.0 12.0 11.0 12.0	
JUN 2004	88.0 87.1 83.5 89.9 93.2 80.4 91.9 92.0	91.3	41.0 34.0 30.0 20.0 2.0 2.0 0.0 0.0	
MAY 2004	95.9 76.3 56.9 88.8 80.3 73.3 75.4 67.0 99.0	70.4	64.0 32.0 33.0 34.0 16.0 20.0 0.0	%1%
APR 2004	93.0 91.5 88.9 76.0 89.5 69.1 77.0 97.1 0.0	59.7	NA NA NA NA 30.0 34.0 9.0 11.0	<i>UARY 2005 IS 79.1%</i> Summer.
MAR 2004	58.4 55.1 77.7 76.6 89.0 82.3 84.7 86.7 0.0	62.0	NA N	<i>UARY 20</i> Summer
YEAR 2004	82.9 79.7 75.9 73.2 65.9 76.4 84.2 81.2 66.6	78.2	96.5	<i>JGH JAN</i> iip of VC
YEAR 2003	80.7 79.7 51.1 68.9 69.1 74.7 69.7 69.8	70.4	6.98	R <i>THRO</i> U i ownersł
YEAR 2002	66.4 75.5 48.4 57.4 57.4 65.4 68.1 71.6 82.2	73.5	9.98	SUMME. ority's 1/3 units.
YEAR 2001	75.0 65.3 60.2 65.6 78.5 72.6 63.9 73.5 74.5	69.1	79.3	rOR V.C., vice Authoricle units are two
MW	105 116 175 125 125 94 350 350 615	2465	165 165 165 385 233 241 1354	644 322 FACTOR Public Serv mbined-Cy
FINE	1		1 2 6 4 5 1 9 2	PACITY Carolina ates Co
F. 7	_	FOSSII TOTALS	JASPER CC JASPER CC JASPER CC JASPER CC URQUHART CC URQUHART CC URQUHART CC URQUHART CC URQUHART CC	(SCE&G)  (SCPSA)*  THE LIFETIME CAPACITY FACTOR FOR V.C.SUMMER THROUGH JAN Note1: CC designates Combined-Cycle units  Note 2: Urquhart units 5&1 And 6&2 are two units.

<sup>\*</sup> Represents South Carolina Public Service Authority's 1/3 ownership of VC Summer.

EXHIBIT ARW-2 Page 1 of 2

## Office of Regulatory Staff Fossil Unit Outage Report (100 Hrs or Greater Duration) for South Carolina Electric and Gas Company

						4	<b>-</b> 4																				
CORRECTIVE ACTION	Unit was taken off-line to perform a variety of work	Form and mills were repaired	FOUR COAL HILLS WEIG TOPAINED	Unit was taken oil-line to periorin a variety of work	Four coal mills were repaired	Maintenance outage	New coal mill hot air duct, repair tube leaks in #1 HP	heater, replace insulation in boiler basement	N/A	Spring Outage	Planned Spring outage for boiler chemical cleaning	Installation of Over Fired Air System	Installation of Over Fired Air System	illotatiation of over the carrier of the	Planned Spring outage	Spring Outage	Fall Outage	Spring Outage	Fall Outage	Spring outage boiler inspection	Waterwall Leaks	Fall Outage	Planned Spring outage	Waterwall Leaks	Fall Outage	Planned Spring outage	rali Outage
REASON FOR OUTAGE	HP Heater	THE PROPERTY OF	Coal Mill Repair	Boiler Leak	Coal Mill Repair	Maintenance	II at A in Duct and Boiler Work	Hot Air Duct and Bonel Work	Economic Dispatch	Spring Outage	Spring Outage	Over Fired Air System	Otto Diag Air Cyretem	Over Fired All System	Spring Outage	Scheduled	Scheduled	Scheduled	Scheduled	Spring Outage	Boiler Leak	Fall Outage	Spring Outage	Boiler Leak	Fall Outage	Spring Outage	Fall Outage
TYPE	Mointenance	Maintenance	Planned	Maintenance	Planned	Maintenance	-	Planned	Reserve Shutdown	Planned	Maintenance	Dionad	rianica	Planned	Maintenance	Planned	Planned	Planned	Planned	Planned	Maintenance	Planned	Planned	Maintenance	Planned	Planned	Planned
HOHES	222.05	27.777	233.57	184.33	175.00	275.28		423.30	144.20	788.80	20.007	507.707	13/1/23	2148.93	223.65	144.00	168.00	144 00	288.00	176.75	108.13	213.27	150.90	125.93	457.27	1785.12	175.67
NOTTAG	DAIEON	03/21/04	10/18/04	03/27/04	10/23/04	05/22/04		11/23/04	11/29/04	10/10/10/	04/24/04	04/04/04	11/21/04	12/16/04	05/03/04	05/15/04	10/10/04	05/08/04	10/15/04	05/02/04	08/03/04	10/17/04	05/09/04	07/29/04	11/11/04	05/14/04	11/06/04
1110 at 4	DAILOFF	03/12/04	10/08/04	03/20/04	10/16/04	05/10/04	10/01/00	11/06/04	11/23/04	11/22/04	04/17/04	03/26/04	09/24/04	09/17/04	04/24/04	05/06/04	10/03/01	10/02/04	10/03/04	04/25/04	07/30/04	10/09/04	05/03/04	07/24/04	10/23/04	03/01/04	10/30/04
		Canadys #1	Canadys #1	Canadye #7	Canadys #2	Canadys #2	Calladys #3	Canadys #3	Conodio #2	Callauys #3	Cope	McMeekin #1	McMeekin #1	McMeekin #2	Uramhart #3	Ulydulait #5	Ulquilait #50.1	Orquilatt #3001	Urqunart #6&2	Urqunari #0&2	Wateree #1	Wateree #1	Wateree #7	Wateree #2	Wateree #2	Williams	Williams

EXHIBIT ARW-2 Page 2 of 2

## Office of Regulatory Staff V.C. Summer Nuclear Unit Outage Report for South Carolina Electric and Gas Company

CORRECTIVE ACTION	Repair C reactor coolant pump seal		injection line	Rentace the mutured pipe	and an administration
REASON FOR OUTAGE	A sepair C reactor coolant pump seal	Automatic reactor trip occurred during regions stranged and programme an	RCP seal injection line		Steam leak in the extraction steam line
TVPE		Ĺ	rorced		Forced
Sallon	CMOOII	1	292.7		76.95
NO SEE A	DAIEON		04/11/04		12/09/04
	DAIE OFF DAIE ON		03/30/04		12/06/04
(	NO.		_		r

## South Carolina Office of Regulatory Staff Generation Mix Report (March 2004 – January 2005) for South Carolina Electric and Gas Company

MONTH		PER	CENTAGE	
	FOSSIL	NUCLEAR	CYCLE CYCLE	HYDRO
2004 March	64	25	7	4
April	70	18	6	6
May	60	22	13	5
June	67	19	9	5
July	64	19	12	5
August	68	19	9	4
September	69	21	5	5
October	68	25	3	4
November	69	24	3	4
December	73	19	4	4
2005 January	64	25	7	4

## South Carolina Office of Regulatory Staff Generation Statistics for Major Plants (March 2004 – January 2005) for South Carolina Electric and Gas Company

PLANT	TYPE FUEL	AVERAGE FUEL COST (CENTS/KWH*)	GENERATION (MWH)
Summer	Nuclear	0.50	5,038,741
McMeekin	Coal	1.97	1,352,298
Wateree	Coal	1.99	4,718,994
Cope	Coal	1.77	3,075,126
Williams	Coal	2.19	3,311,051
Urquhart	Coal	1.94	595,518
Canadys	Coal	2.07	2,493,327
Urquhart CC	Gas	5.19	230,476
Jasper CC	Gas	5.23	1,461,509

<sup>(\*)</sup> The average fuel costs for coal-fired plants include oil and/or gas cost for start-up and flame stabilization.

# Office of Regulatory Staff SC Retail Comparison of Estimated to Actual Energy Sales for South Carolina Electric and Gas Company

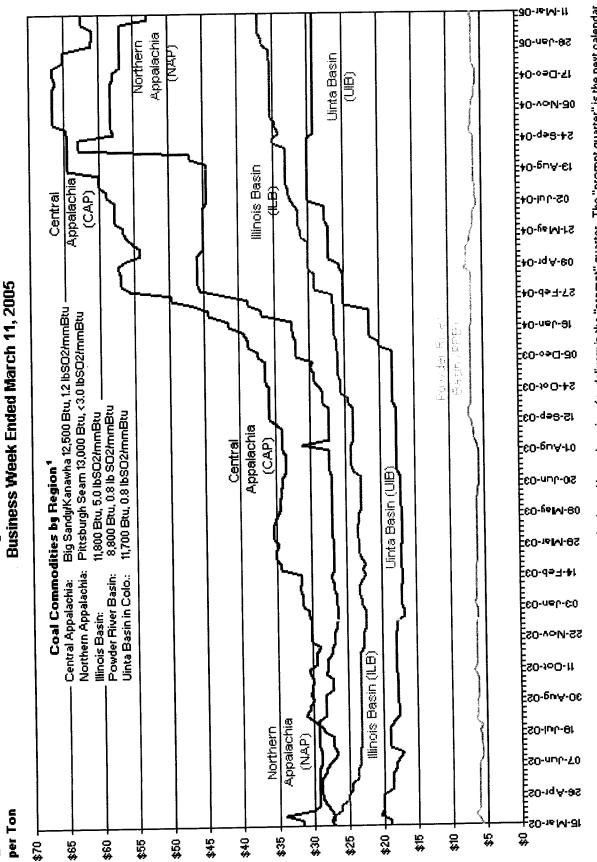
		2004 MAR	APR	MAY	NOI	TOF	AUG	SEP	OCT	NOV	DEC	2005 JAN	TOTAL
Ξ	[1] ESTIMATED SALES [MWH]	1,668,000	1,639,000	1,639,000 1,768,000		2,252,000	2,273,000	1,997,000 2,252,000 2,273,000 2,166,000 1,810,000 1,666,000 1,789,000 1,918,000	1,810,000	1,666,000	1,789,000	1,918,000	20,946,000
[2]	[2] ACTUAL SALES IMWH]	1,795,785	1,598,901	1,598,901 1,797,955	2,237,721	2,295,098	2,247,840	2,237,721 2,295,098 2,247,840 2,046,684 1,787,093 1,678,565 1,796,540 1,930,223 21,212,405	1,787,093	1,678,565	1,796,540	1,930,223	21,212,405
[3]	[3] AMOUNT DIFFERENCE	-127,785	40,099	-29,955	-240,721	-43,098	25,160	119,316	119,316 22,907	-12,565	-7,540	-12,223	-266,405
<u> </u>	PERCENT DIFFERENCE [3]/[2]	-7.12%	2.51%	-1.67%	-10.76%	-1.88%	1.12%	5.83%	1.28%	-0.75%	-0.42%	-0.63%	-1.26%

# Office of Regulatory Staff SC Retail Comparison of Estimated to Actual Fuel Cost for South Carolina Electric and Gas Company

		2004 MAR	APR	MAY	NOI	JUL	AUG	SEP	OCT	NOV	DEC	2005 JAN	PERIOD AVERAGE
Ξ	ORIGINAL PROJECTION	1.8173	1.7771	1.8997	1.9430	2.0497	2.0303	1.5914	1.8157	1.7544	1.9119	1.8368	1.8626
[2]	` _	1.5140	2.1172	2.4889	1.9849	2.0745	1.9473	1.8021	1.8827	1.9651	2.004	2.0986	1.9874
<u>E</u>	7 -	1.6780	1.6780	1.8210	1.8210	1.8210	1.8210	1.8210	1.8210	1.8210	1.8210	1.7640	
<u>4</u>	VARIANCE	20.03%	20.03% -16.06%	-23.67% -2.11%	-2.11%	-1.20%	4.26%	-11.69%	-3.56%	-10.72%	-4.60%	-12.47%	-6.28%
	FROM ACTUAL  1-2 /[2]												

## South Carolina Office of Regulatory Staff History of Cumulative Recovery Account Report for South Carolina Electric and Gas Company

PERIOD ENDING	OVER (UNDER) \$
January 1979 – Automatic Fuel Adjustment in Effect	
	4,427,600
July 1979 April 1980	7,608,796
October 1980	( 462,050)
April 1981	2,188,451
October 1981	(10,213,138)
April 1982	5,164,628
October 1982	9,937,268
April 1983	9,767,185
October 1983	( 4,527,441)
April 1984	( 2,646,395)
October 1984	( 3,211,158)
April 1985	( 9,545,054)
October 1985	( 6,115,435)
April 1986	2,474,301
October 1986	( 540,455)
April 1987	( 353,393)
October 1987	( 3,163,517)
April 1988	9,247,139
October 1988	2,717,342
April 1989	( 5,665,737)
October 1989	( 8,777,726)
April 1990	( 5,288,612)
October 1990	6,536,591
April 1991	7,180,922
October 1991	4,160,275
April 1992	15,835,472
October 1992	15,449,670
April 1993	16,006,551
October 1993	10,069,457
April 1994	2,646,301
October 1994	( 265,302)
April 1995	6,622,597
October 1995	4,202,766
February 1997	4,914,169
February 1998	596,797
February 1999	(1,303,094)
February 2000	( 124,599) (60,454,408)
February 2001	(60,454,498)
February 2002	(16,421,821)
February 2003	(17,429,464)
February 2004	(20,532,126) (23,979,198)
January 2005	(23,777,170)



Average Weekly Coal Commodity Spot Prices

**Dollars** 

\*Coal prices shown are for a relatively high-Btu coal selected in each region, for delivery in the "prompt" quarter. The "prompt quarter" is the next calendar quarter, with quarters shifting forward after the 15th of the month preceding each quarter's end.

Source: with permission, selected from listed prices in Platts Coal Dutlook, "Weekly Price Survey."

South Carolina Office of Regulatory Staff

South Carolina Electric & Gas Company Forecasted Coal Costs

\$/Ton	59.14	58.52	62.59
\$	429,216,398	366,081,340	398,420,920
Tons	7,257,467	6,256,000	6,366,000
Year	2005	2006	2007

## South Carolina Office of Regulatory Staff

Base Fuel Rate

	Projected Period: May 2005 through April 2006 for South Carolina Electric & Gas Company	
	Projected Period Average Fuel Cost (\$/kwh)	\$ .02256
5	One-half of Prior Period Under Recovery (\$000) (\$37,949)/2=	\$(18,974.5)
3.	Projected Retail Sales (gwh)-May 2005 through April 2006:	22,085
4.	One-half Prior Period Recovery Rate (\$/kwh)	\$ .00086
5.	Projected Period Average Fuel Cost (\$/kwh)	\$ .02256
6.	Adjustment for Fixed Natural Gas Transportation Charge Moved to Base Rates (\$/kwh)	\$ (.00086)
7.	Recommended Base Fuel Rate for Projected Period (4+5+6)	\$ .02256

### **BEFORE**

## THE PUBLIC SERVICE COMMISSION

### OF SOUTH CAROLINA

**DOCKET NO. 2005-2-E** 

N RE: South Carolina Electric & Gas	)
Company – Annual Review	)
of Base Rates for Fuel	)
	)

CERTIFICATE OF SERVICE

This is to certify that I, Cindy Clary, an employee with the Office of Regulatory Staff, have this date served one (1) copy of the **Direct Testimony of A.R. Watts and Jacqueline R.**Cherry in the above-referenced matter to the person(s) named below by causing said copy to be deposited in the United States Postal Service, first class postage prepaid and affixed thereto, and addressed as shown below:

Mitchell Willoughby, Esquire Willoughby & Hoefer, P.A.
Post Office Box 8416
Columbia, SC 29202

Damon E Xenopoulos , Esquire

Brickfield Burchette Ritts & Stone, PC

1025 Thomas Jefferson Street, NW - 8th Floor

Washington, DC 20007

John F. Beach, Esquire Ellis, Lawhorne & Sims, PA 1501 Main Street, 5th Floor Columbia, SC 29201

Scott Elliott, Esquire Elliott & Elliott, P.A. 721 Olive Street Columbia, SC 29205

Cindy Clary Clary

March 23, 2005 Columbia, South Carolina

## THE OFFICE OF REGULATORY STAFF DIRECT TESTIMONY AND EXHIBITS

**OF** 

Jacqueline R. Cherry





or Dour

DOCKET NO. 2005-2-E
South Carolina Electric & Gas Company
Annual Review

22

Q.

PROCEEDING?

WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS

21

22

1	A.	The purpose of my testimony is to summarize the results of ORS Audit
2		Staff's examination of South Carolina Electric & Gas Company's ("the
3		Company") Fuel Adjustment Clause operation for the period March
4		2004 through April 2005. The findings of the examination are set forth
5		below and in the exhibits attached to this testimony.
6	Q.	PLEASE IDENTIFY THE EXHIBITS ATTACHED TO YOUR PREFILED
7		TESTIMONY.
8	A.	I have attached the Audit Report of the Office of Regulatory Staff for
9		Docket No. 2005-2-E, South Carolina Electric & Gas Company's Annual
10		Review of Base Rates for Fuel Costs. The contents of the Audit Report
11		were either prepared by me or were prepared under my direction and
12		supervision.
13	Q.	WHAT WAS THE SCOPE OF YOUR AUDIT?
14	A.	ORS Audit Staff traced the fuel information as filed in the Company's
15		required monthly reports to the Company's books and records. The
16		current fuel review period covered the period March 2004 through April
17		2005. However, the ORS Audit Staff did not examine the months of
18		February, March and April 2005 because the per book figures were not
19		available. Estimated figures were used for those months. The purpose

of the audit was to determine if South Carolina Electric & Gas Company

had computed and applied the monthly Fuel Adjustment Clause in

accordance with the approved clause and S.C. Code Ann. §58-27-

for the month of March 2005 and the projected (under)-recovery of

1	(\$8,216,250) for April 2005 to arrive at a cumulative (under)-recovery of
2	(\$37,949,436). The Company's cumulative (under)-recovery as of April
3	2005, per its testimony in Docket No. 2005-2-E (Exhibit No. – (JRH-1)),
4	totals (\$37,949,440). The difference between the Company's and
5	ORS's cumulative (under)-recovery totals \$4, which is based on
6	rounding.
7	It should be noted that ORS's cumulative (under)-recovery of fuel
8	costs as of actual January 2005 totaled (\$23,979,198). The Company's
9	cumulative (under)-recovery total as of actual January 2005 totaled
10	(\$24,190,208). The difference between the Company's and the ORS's
11	cumulative (under)-recovery as of actual January 2005 totals \$211,010.
12	ORS Audit Exhibit JRC-7, Computation of Unbilled Revenue, consisting
13	of 4 pages, provides the explanation for this cumulative (under)-
14	recovery difference as of January 2005.
15	As stated in South Carolina Electric & Gas Company's Adjustment
16	for Fuel Costs, fuel costs will be included in base rates to the extent
17	determined reasonable and proper by the Commission.
18	Accordingly, the Commission should consider the (under)-recovery of
19	(\$37,949,436) along with the anticipated fuel costs for the period May 1,
20	2005 through April 30, 2006, for the purpose of determining the base
21	cost of fuel in base rates effective May 1, 2005. This (\$37,949,436)

20

21

22

contested dockets (Docket No. 2003-2-E), would have to be reconciled

to the Company's actual February 2004 cumulative (under)-recovery

balance. Therefore, the second amount is the carry-forward (under)-

recovery Company vs. Staff difference of (\$5,432,913) added to Staff's

1		original cumulative (under)-recovery balance as of February 2004 of
2		(\$15,099,348). Both figures are from the last fuel hearing. The sum of
3		the two aforementioned figures is the amount at the beginning of this
4		exhibit, (\$20,532,261). This amount, which is the same amount shown
5		by the Company as its beginning over (under)-recovery balance from
6		February 2004 for this review period, also reflects the settlement of any
7		previous fuel dockets.
8	Q.	DID THE COMPANY MAKE ANY ADJUSTMENTS OR TRUE-UPS
9		DURING THE ACTUAL REVIEW PERIOD?
10	A.	My second footnote in Audit Exhibit JRC-7 explains that in March, April,
l 1		May, July, August, November and December 2004, the Company had
12		true-ups due to various Company corrections and revisions to costs such
13		as Fossil Fuel Costs, SO <sub>2</sub> Emissions Allowances and Purchased Power
14		(Purchases and Sales) Costs. The amount applicable to the PSC-
15		approved Stipulation of SCE&G and the Consumer Advocate, per the
16		last fuel review period, \$25,618,063, is reflected in the May 2004 true-up
17		adjustments as a reduction to the Fuel Adjustment Clause.
18	Q.	WHAT DID THE ORS AUDIT REVEAL CONCERNING THE
19		URQUHART AND JASPER PLANTS' FIXED GAS
20		TRANSPORTATION CHARGES?
21	A.	The third footnote in Audit Exhibit JRC-7 details that for each month of

the review period, the Urquhart Plant Fixed Capacity Gas Transportation

Charge of \$673,417 is deducted, on a retail basis, from each monthly
deferred fuel entry pursuant to PSC Order No. 2003-38. That PSC Order
stated that these Fixed Gas Transportation Capacity Charges would be
removed from the S.C. Fuel Adjustment Clause to allow recovery of
these charges through base rates (per rate case), rather than through
the clause. These charges are fixed monthly charges that do not vary
with the consumption of natural gas. As stated in PSC Order No. 2003-
38, these charges should "be included in base rates because of the fixed
nature of the obligations." As of January 2005, the Jasper Plant Fixed
Capacity Charge monthly retail amount of \$910,167, prorated for
January 2005, is also treated on a retail basis as a reduction to the
monthly Deferred Fuel Entries, per PSC Order No. 2005-2 (the
Company's latest rate case order, effective January 6, 2005). Based on
PSC Order No. 2005-2, as of January 6, 2005, the current review
period's fuel factor was reduced by \$0.00057/kwh to reflect the removal
of the Jasper Plant's Fixed Capacity Charge from the fuel clause
calculations. Based on the same rationale as PSC Order No. 2003-38,
the Jasper Plant Fixed Capacity Charges would be removed from the
S.C. Fuel Adjustment Clause to allow recovery of these charges through
base rates (per rate case), rather than through the clause. These
charges are fixed monthly charges that do not vary with the consumption
of natural gas. As stated in PSC Order No. 2005-2, these charges

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should "be included in base rates because of the fixed nature of the Therefore, in January 2005 two base fuel factors are reflected, the Old Base Fuel Factor (before PSC Order No. 2005-2) of \$0.01821 and the New Base Fuel Factor (as of PSC Order No. 2005-2, dated January 6, 2005) of \$0.01764 (\$0.01821 less \$0.00057). January 2005 Retail KWH Sales were prorated according to those Retail KWH 6 Sales applicable to the Old Base Fuel Factor and to the New Base Fuel 7 Factor. It was determined that 55% of the January 2005 Retail KWH 8 Sales are applicable to the Old Base Fuel Factor and 45% are applicable 9 to the New Base Fuel Factor. Using these prorated percentages, ORS 10 Audit Staff and the Company then prorated the Fixed Capacity Charges 11 of the Urquhart Plant and the Jasper Plant. In January 2005, under the 12 Old Base Fuel Factor, the prorated amount for the Urquhart Plant was 13 370,379 (\$673,417 x 55%). Under the New Base Fuel Factor, the 14 prorated amount for the Urquhart Plant was \$303,038 (\$673,417 x 45%). 15 The Jasper Plant prorated amount totaled \$409,575 (\$910,167 x 45%). 16 The grand total for the Urquhart and Jasper Plants under the New Base 17 Fuel Factor totaled \$712,613. 18

## Q. HOW DID THIS IMPACT THE (UNDER)-RECOVERY OF FUEL COSTS?

A. As mentioned previously, the ORS cumulative (under)-recovery of fuel 20 costs as of actual January 2005 totaled (\$23,979,198). The Company's 21 cumulative (under)-recovery total as of actual January 2005 totaled 22

1		(\$24,190,208). The difference between the Company's and the ORS's
2		cumulative (under)-recovery as of actual January 2005 totaled \$211,010.
3		This difference was based on the Company originally using another
4		methodology to prorate the Fixed Capacity Charges. However, the
5		Company, in its testimony in Docket No. 2005-2-E {Exhibit No. – (JRH-1)},
6		reflects a true-up adjustment in estimated February 2005 of \$211,009,
7		which reconciles within a \$2 rounding difference (\$1 from January 2005's
8		\$211,010 vs. \$211,009 difference; and \$1 from February 2005). The
9		cumulative (under)-recovery balance as of estimated February 2005 of the
10		Company totaled (\$26,631,736) and the ORS totaled (\$26,631,734).
11	Q	MRS. CHERRY, WOULD YOU PLEASE DESCRIBE THE ORS AUDIT
11	α.	
12	α.	STAFF EXHIBITS?
12		
12		STAFF EXHIBITS?
12 13		STAFF EXHIBITS?  ORS prepared exhibits from South Carolina Electric & Gas Company's
12 13 14		STAFF EXHIBITS?  ORS prepared exhibits from South Carolina Electric & Gas Company's books and records reflecting fuel costs during the review period.
12 13 14 15		STAFF EXHIBITS?  ORS prepared exhibits from South Carolina Electric & Gas Company's books and records reflecting fuel costs during the review period.  Specifically, these exhibits are as follows:
12 13 14 15 16		STAFF EXHIBITS?  ORS prepared exhibits from South Carolina Electric & Gas Company's books and records reflecting fuel costs during the review period.  Specifically, these exhibits are as follows:  Exhibit JRC-1: Total Received & Weighted Average Cost
12 13 14 15 16 17		STAFF EXHIBITS?  ORS prepared exhibits from South Carolina Electric & Gas Company's books and records reflecting fuel costs during the review period.  Specifically, these exhibits are as follows:  Exhibit JRC-1: Total Received & Weighted Average Cost  Exhibit JRC-2: Received Coal-Cost Per Ton (Per Plant)
12 13 14 15 16 17		STAFF EXHIBITS?  ORS prepared exhibits from South Carolina Electric & Gas Company's books and records reflecting fuel costs during the review period.  Specifically, these exhibits are as follows:  Exhibit JRC-1: Total Received & Weighted Average Cost  Exhibit JRC-2: Received Coal-Cost Per Ton (Per Plant)  Exhibit JRC-3: Received Coal-Cost Per Ton Comparison

Exhibit JRC-7: Computation of Unbilled Revenue

## 1 Q. MRS. CHERRY, WHAT WERE THE RESULTS OF THE ORS AUDIT

- **DEPARTMENT'S REVIEW?** 2
- A. Based on the ORS Audit Staff's examination of South Carolina Electric &
- Gas Company's books and records, and the utilization of the fuel cost 4
- recovery mechanism as directed by the Commission, the ORS Audit 5
- Department is of the opinion that the Company has complied with the 6
- directives (per the Fuel Adjustment Clause) of the Commission. 7
- Q. MRS. CHERRY, DOES THIS CONCLUDE YOUR TESTIMONY?
- 9 A. Yes, it does.

# REPORT OF THE AUDIT DEPARTMENT THE OFFICE OF REGULATORY STAFF

DOCKET NO. 2005-2-E
SOUTH CAROLINA ELECTRIC & GAS COMPANY

## REPORT OF THE AUDIT DEPARTMENT THE OFFICE OF REGULATORY STAFF

### **DOCKET NO. 2005-2-E**

## **SOUTH CAROLINA ELECTRIC & GAS COMPANY**

## ANNUAL REVIEW OF BASE RATES FOR FUEL COSTS

REVIEW PERIOD: MARCH 1, 2004 – JANUARY 31, 2005 (ACTUAL)

### INDEX

	<del></del>	PAGE NUMBER
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Exhibit JRC-2:	Received Coal-Cost Per Ton (Per Plant)	12
Exhibit JRC-3:	Received Coal-Cost Per Ton Comparison	13
Exhibit JRC-4:	Burned Cost-Consumed Generation	14
Exhibit JRC-5:	Cost of Fuel	15
Exhibit JRC-6:	Factor Computation	16
Exhibit JRC-7:	Computation of Unbilled Revenue-	17 -20

Note: All of the ORS Audit Exhibits were prepared by the ORS Audit Staff.

## REPORT OF THE AUDIT DEPARTMENT DOCKET NO. 2005-2-E

## SOUTH CAROLINA ELECTRIC & GAS COMPANY ANNUAL REVIEW OF BASE RATES FOR FUEL COSTS

### INTRODUCTION

The Office of Regulatory Staff's (ORS) Audit Department has made an examination of the books and records of South Carolina Electric & Gas Company, Columbia, South Carolina, relative to the Public Service Commission's requirement under Docket No. 2005-2-E and S.C. Code Ann. §58-27-865(A), that periodic hearings be conducted before the Commission concerning the Adjustment of Base Rates for Fuel Costs.

#### **CURRENT REVIEW PERIOD**

The current examination of South Carolina Electric & Gas Company's retail Fuel Adjustment Clause covered the period of March 2004 through April 2005. However, the ORS Audit Staff did not examine the months of February, March, and April 2005 because the per book figures were not available during ORS's audit. The amounts of over/(under)-recovery for February 2005, March 2005 and April 2005 were estimated for the purpose of adjusting base rates effective May 1, 2005. The estimates will be trued-up at South Carolina Electric & Gas Company's ("the Company") next hearing. Finally, it should be noted that the original hearing date of March 30, 2005 was rescheduled by the Public Service Commission to April 6, 2005.

#### SCOPE OF EXAMINATION

The ORS Audit Department's examination consisted of:

- 1. Analyzing the Fuel Stock Account -- Account #151
- 2. Sampling Receipts to the Fuel Stock Account Account # 151
- 3. Verifying Charges to Nuclear Fuel Expense Account # 518
- 4. Verifying Purchased & Interchange Power Fuel Costs
- 5. Verifying KWH Sales
- 6. Analyzing Spot Coal Purchasing Procedures
- Recalculating the Fuel Costs Adjustment Factors and Verifying
   Unbilled Revenue
- Recalculating the True-up for the Over (Under)-Recovered Fuel
   Costs
- 9. Verifying the Details of the Company's Fuel Costs

## 1. ANALYZING THE FUEL STOCK ACCOUNT -- ACCOUNT # 151

ORS's analysis of the Fuel Stock Account consisted of tracing receipts and issues from the fuel management system to the General Ledger, reviewing monthly journal entries originating in fuel accounting, and ensuring that only proper charges are entered in the Company's computation of fuel costs for purposes of adjusting base rates for fuel costs.

## 2. SAMPLING RECEIPTS TO THE FUEL STOCK ACCOUNT – ACCOUNT # 151

ORS's sample of coal receipts to the Fuel Stock Account consisted of randomly selecting transactions, tracing each of these randomly selected transactions to a coal receiving report, waybill, freight study detailed report, and the fuel management system payment voucher for documentation purposes. It also consisted of recalculating the transactions to insure mathematical accuracy.

## 3. VERIFYING CHARGES TO NUCLEAR FUEL EXPENSE – ACCOUNT # 518

ORS traced the expense amounts for nuclear fuel to the books and records for the period March 2004 through January 2005 to verify the accuracy of the expenses to fuel amortization schedules.

## 4. VERIFYING PURCHASED AND INTERCHANGE POWER FUEL COSTS

ORS verified the Company's Purchased and Interchange Power Fuel
Costs to summary sheets provided to the Company's Electric Pricing Department
by the Company's Operations Department. Fuel costs, KWH purchases and
sales for the period March 2004 through January 2005 were traced to system
reports, and on a sample basis, were traced to monthly invoices. ORS
Purchased Power figures for March 2004 through January 2005 and the resultant
over (under)-recovery monthly deferred fuel amounts for March 2004 through
January 2005 reflect calculations which comply with the revised section of the
S.C. Fuel Statute (updated as of February 2004), S.C. Code Ann. §58-27-865(A).
This Statute addresses "fuel costs related to purchased power." Sub-section

(A)(2)(b) of the revised Statute stated that the delivered cost of economy purchases, including transmission charges, could be included in Purchased Power Costs if those types of purchases were proven to be "less than the purchasing utility's avoided variable costs for the generation of an equivalent quantity of electric power." The Company's per books economic purchases included wheeling (transmission) charges for the review period which totaled \$390,747. ORS applied this revised Statute to the examined economic purchases along with the applicable avoided costs. ORS Audit Staff noted no exceptions to Purchased Power Costs. It should be noted that since the Company's last fuel review period, the Company has implemented an "in-house" procedure that audits the Company's avoided costs information in relation to the Company's hourly purchase power records. Since this procedure is performed weekly, it enables the Company to monitor more closely and if needed, to quickly correct its avoided costs versus purchase price transactions.

## 5. VERIFYING KWH SALES

ORS verified total system sales, as filed in the monthly factor computation, for the months of March 2004 through January 2005. This monthly figure was then used to determine the fuel cost per KWH sold.

## 6. ANALYZING SPOT COAL PURCHASING PROCEDURES

ORS examined the procedure followed by the Company's Fuel

Procurement Department in soliciting and accepting bids on spot coal. To

accomplish this, ORS examined each month of the audit period in which several spot coal bids were received.

The Fuel Procurement Department maintains a list of coal vendors from whom bids are solicited. The Company mails each of these coal vendors a letter which states the necessary requirements for the coal the Company seeks and the information needed concerning the coal producer and the fuel quality standards. The Company's fuel representatives negotiate over the price of the coal and either accept or reject the coal vendor's offer. The Company's fuel representatives determine the current market price for spot coal prior to contacting the coal vendors to discuss the vendors' offers. In this way, the fuel representatives determine the price limits which should be observed when bargaining for coal. Fuel representatives generally consider several factors when evaluating spot coal bids including the price in \$/MMBTU (including freight), whether the coal is suitable on an operational and environmental basis (for example, the BTU content of the coal offered), and the reliability of the producer. The Company receives bids in writing, but telephone, email and fax bids are often received. Upon acceptance of a bid, the Company prepares a confirming order, a copy of which is mailed to the coal vendor. The Company or the vendor, based on negotiations, analyzes the coal for moisture, ash, sulfur, and BTU content and prepares an analysis report, which is sent to the Fuel Procurement Department. The appropriate quality premium or penalty on the coal purchased is determined, and the results are forwarded to the Company's Accounting Section, which in turn, adds a premium or assesses a penalty to the total amount due to the coal vendor.

The Fuel Procurement Department closely monitors the quality of coal shipped by the various producers. If less than guaranteed performance is

rendered by a certain producer, the Company's fuel representative accesses this information and considers this when analyzing any future offers received from the supplier.

As previously mentioned, ORS examined spot coal bids received for each month during the review period. The examination included reviewing any bids accepted and also those that were rejected.

During the review period, out of approximately one hundred and thirty-two bids, the Company accepted thirty-three offers and rejected ninety-nine offers.

The total spot coal tons purchased for the period March 2004 through January 2005 were 944,997 tons.

## 7. RECALCULATING THE FUEL COSTS ADJUSTMENT FACTORS AND VERIFYING UNBILLED REVENUE

ORS recomputed the fuel adjustment factors utilizing information obtained from the Company's records.

With reference to fuel cost, ORS verified the Total Fuel Costs for the months of March 2004 through January 2005 to the Company's books and records.

In recomputing the monthly factors, ORS divided the Total Cost of Fuel Burned by Total System Sales to arrive at fuel costs per KWH sales. The base fuel cost per KWH, included in the base rates, is then subtracted from the fuel cost per KWH sales and the resulting figure represents the fuel cost adjustment above or below base per KWH sales. The South Carolina Retail Jurisdictional KWH deferrals were checked to the Company's records. The actual Unbilled Revenue for each month was verified to the Company's Detailed Ledger.

## 8. RECALCULATING THE TRUE-UP FOR THE OVER / (UNDER)RECOVERED FUEL COSTS

ORS analyzed the cumulative over/ (under)-recovery of fuel costs that the Company had incurred for the period March 2004 through January 2005. The cumulative (under)-recovery amount totaled (\$23,979,198). ORS added the projected (under)-recovery of (\$4,236,120) for the month of February 2005, the projected (under)-recovery of (\$6,268,620) for the month of March 2005 and the projected (under)-recovery of (\$8,216,250) for April 2005 to arrive at a cumulative (under)-recovery of (\$37,949,436). The Company's cumulative (under)-recovery as of April 2005, per its testimony in Docket No. 2005-2-E {Exhibit No. - (JRH-1)}, totals (\$37,949,440). The difference between the Company's and ORS's cumulative (under)-recovery as of estimated April 2005 totals \$4, which is based on rounding. It should be noted that ORS's cumulative (under)-recovery of fuel costs as of actual January 2005 totaled (\$23,979,198). The Company's cumulative (under)-recovery total as of actual January 2005 totaled (\$24,190,208). The difference between the Company's and ORS's cumulative (under)-recovery as of actual January 2005 totals \$211,010. This difference is based on ORS's usage of the Company's computed retail KWH Sales applicable to the Old Base Fuel Factor (before the effective date in January 2005 of the Company's latest rate case, per PSC Order No. 2005-2) and those retail KWH Sales applicable to the New Base Fuel Factor (after the effective date in January 2005 of the rate case as set by PSC Order No. 2005-2) as compared to the total January 2005 retail KWH Sales to arrive at percentages of 55% and 45%, respectively. These percentages are then used in prorating the Fixed Capacity

Charges of the Urquhart Plant and the Jasper Plant. The Fixed Capacity
Charges are shown as reductions, on a retail basis, to the deferred fuel account
in the S.C. Fuel Adjustment Clause. The Company, in its testimony in Docket
No. 2005-2-E {Exhibit No. – (JRH-1)}, reflects a true-up adjustment, in estimated
February 2005, of \$211,009, which reconciles within a \$2 rounding difference (\$1
from January 2005's \$211,010 vs. \$211,009 difference; and \$1 from February
2005), the cumulative (under)-recovery balance as of estimated February 2005
by the Company, which totaled (\$26,631,736) and the ORS, which totaled
(\$26,631,734). ORS Audit Exhibit JRC-7, Computation of Unbilled Revenue,
consisting of 4 pages, provides detailed explanations and reflects the cumulative
(under)-recovery balance as of actual January 2005 through estimated April
2005.

As stated in South Carolina Electric & Gas Company's Adjustment for Fuel Costs, fuel costs will be included in base rates to the extent determined reasonable and proper by the Commission.

Accordingly, the Commission should consider the (under)-recovery of (\$37,949,436) along with the anticipated fuel costs for the period May 1, 2005 through April 30, 2006 for the purpose of determining the base cost of fuel in base rates effective May 1, 2005. The (\$37,949,436) (under)-recovery figure was provided to the ORS's Electric and Gas Regulation Department.

9. VERIFYING THE DETAILS OF THE COMPANY'S FUEL COSTS
Details of fuel costs are shown in Audit Exhibits JRC-1 through JRC-7.

## **RESULTS OF EXAMINATION**

Based on the ORS Audit Staff's examination of South Carolina Electric & Gas Company's books and records, and the utilization of the fuel costs recovery mechanism as directed by this Commission, the ORS Audit Staff is of the opinion that the Company has complied with the directives of the Commission.

### **EXHIBITS**

Exhibits relative to this report are identified as follows:

## **EXHIBIT JRC-1: TOTAL RECEIVED AND WEIGHTED AVERAGE COST**

This exhibit reflects the total cost for the period March 2004 through January 2005, for the four types of fossil fuel: coal, # 2 oil, propane and natural gas. The Staff has also computed the weighted average cost of each type of fuel.

## EXHIBIT JRC-2: RECEIVED COAL-COST PER TON (PER PLANT)

This exhibit shows the received cost per ton for coal at each plant for the period of time from March 2004 through January 2005, in dollars per ton including freight costs.

## **EXHIBIT JRC-3: RECEIVED COAL - COST PER TON COMPARISON**

This exhibit reflects the received cost per ton for coal at each period of time from March 2004 through January 2005 for South Carolina Electric & Gas Company, Duke Power Company, and Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc. ORS has shown for comparison purposes, the

invoice cost per ton, freight cost per ton, total cost per ton and the cost per MBTU.

### **EXHIBIT JRC-4: BURNED COST-CONSUMED GENERATION**

This exhibit reflects the per book cost of burned fuel, including emission allowance expenses, which was used for generation for the period March 2004 through January 2005. The burned cost of each class of fuel is separated and the percentage of total burned computed for each type.

### **EXHIBIT JRC-5: COST OF FUEL**

This exhibit reflects the cost of fuel for the period March 2004 through January 2005.

#### **EXHIBIT JRC-6: FACTOR COMPUTATION**

This exhibit reflects the actual computation of the fuel adjustment factor for the period March 2004 through January 2005.

## **EXHIBIT JRC-7: COMPUTATION OF UNBILLED REVENUE**

This exhibit reflects the computation of the unbilled revenue at April 30, 2005. The balance amounts to an (under)-recovery of (\$37,949,436). This balance represents the difference between actual (with three months estimated) total fuel costs and unbilled fuel costs for the Company's retail customers for the period.

South Carolina Electric & Gas Company Total Received and Weighted Average Cost March 2004 - January 2005

								• •	Total Received
Month	Coal		#2 Oil	ii.	Propane	σı	Gas	<u> </u>	Cost
	Tons	••	Gal	₩	Gal	₩.	MCF	•	<b>"</b>
Mar-04	529,882	24,800,799	384,898	429,170	361	353	158,740	1,667,487	26,897,809
Apr-04	615,101	31,330,462	218,746	226,192	0	0	568,248	4,257,037	35,813,691
May-04	561,783	27,854,929	1,298,128	1,432,806	340	360	2,012,294	16,771,614	46,059,709
Jun-04	570,303	29,915,288	289,521	311,944	400	404	1,609,120	12,655,736	42,883,372
Jul-04	529,121	25,684,460	187,225	207,078	465	512	2,240,130	15,914,836	41,806,886
Aug-04	657,800	34,474,897	243,044	307,326	970	1,194	1,639,780	11,882,444	46,665,861
Sep-04	476,629	24,911,362	3,229,727	4,235,754	685	817	870,228	6,938,807	36,086,740
Oct-04	551,711	28,128,240	563,216	873,321	440	561	406,354	3,188,501	32,190,623
Nov-04	619,190	33,982,529	181,299	274,869	302	372	489,259	5,723,274	39,981,044
Dec-04	495,838	24,997,110	66,351	106,294	0	0	641,661	6,622,690	31,726,094
Jan-05	735,096	44,610,429	688,677	965,552	0	0	1,023,348	9,216,645	54,792,626
Total	6,342,454	330,690,505	7,350,832	9,370,306	3,963	4,573	11,659,162	94,839,071	434,904,455
Weighted Average Cost	\$52.14	<b>4</b> 1	\$1.27	<b>1</b> 2	\$1.15		\$8.13	13	

Note: Prepared by the ORS Audit Staff.

South Carolina Electric & Gas Company Received Coal - Cost Per Ton (Per Plant) March 2004 - January 2005

Jan-05	53.75	51.30	56.32	54.43	51.52	54.73	73.64	89.09
Dec-04	52.47	44.98	57.45	50.23	47.42	51.21	58.32	50.41
Nov-04	51.27	48.66	49.41	51.47	47.09	53.12	63.87	54.88
Oct-04	50.70	48.48	48.69	50.22	43.35	50.24	55.77	50.99
Sep-04 \$	52.50	48.31	49.29	54.17	45.91	56.31	54.58	52.27
Aug-04	51.94	45.62	49.10	48.88	46.29	51.23	61.06	52.40
Jul-04	52.96	47.34	51.38	46.98	46.29	49.72	44.11	48.54
Jun-04	48.38	51.12	48.80	55.76	45.95	52.45	58.69	52.45
May-04 \$	49.02	47.53	49.18	48.72	48.90	53.01	48.53	49.59
Apr-04	47.96	46.40	51.44	51.61	46.25	53.07	56.82	
Mar-04	43.03	43.95	46.07	46.70	44.74	50.90	43.22	46.81
Plant	Canadys	Cope	McMeekin	SRS/D Area	Urauhart	Wateree	Williams	Total System

Note: Prepared by the ORS Audit Staff.

## South Carolina Electric & Gas Company Received Coal-Cost Per Ton Comparison March 2004 - January 2005

South Ca	rolina Electric 8	Gas Company
Invoice Cost	Freight Cost	<b>Total Cost Per</b>

	11110100 0000	1 1019111 0001	1000.000.	
<b>Month</b>	Per Ton	Per Ton	<u>Ton</u>	Cost Per MBTU
<del></del>	\$	\$	\$	\$
Mar-04	33.19	13.62	46.81	1.8470
Apr-04	37.53	13.40	50.93	2.0176
May-04	37.52	12.07	49.59	1.9566
Jun-04	39.53	12.92	52.45	2.0821
Jul-04	35.93	12.61	48.54	1.9187
Aug-04	41.14	11.26	52.40	2.0844
Sep-04	38.07	14.20	52.27	2.0901
Oct-04	37.82	13.17	50.99	2.0357
Nov-04	43.54	11.34	54.88	2.1668
Dec-04	37.47	12.94	50.41	2.0026
Jan-05	49.94	10.74	60.68	2.3853
		<b>Duke Power Co</b>	mpany	

		Duke Fower oo	IIIPally	
	Invoice Cost	Freight Cost	Total Cost Per	
Month	Per Ton	Per Ton	<u>Ton</u>	Cost Per MBTU
	\$	\$	\$	\$
Mar-04	32.02	15.68	47.70	1.9387
Apr-04	32.18	15.41	47.59	1.9331
May-04	32.46	15.55	48.01	1.9591
Jun-04	32.05	16.54	48.59	1.9922
Jul-04	33.39	16.80	50.19	2.0517
Aug-04	34.25	16.52	50.77	2.0639
Sep-04	33.74	16.76	50.50	2.0631
Oct-04	32.17	16.54	48.71	1.9980
Nov-04	35.08	14.56	49.64	2.0264
Dec-04	33.79	17.42	<b>51.21</b>	2.1058
Jan-05	35.89	16.92	52.81	2.1615

Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.

	Invoice Cost	Freight Cost	Total Cost Per	
Month	Per Ton	Per Ton	<u>Ton</u>	Cost Per MBTU
	\$		\$	\$
Mar-04	31.81	16.40	48.21	1.9337
Apr-04	36.42	14.61	51.03	2.0560
May-04	35.64	15.03	50.67	2.0446
Jun-04	38.54	14.53	53.07	2.1495
Jul-04	44.20	13.78	57.98	2.3376
Aug-04	43.73	13.92	57.65	2.3394
Sep-04	41.02	14.02	55.04	2.2249
Oct-04	38.67	15.17	53.84	2.1706
Nov-04	41.14	14.84	55.98	2.2514
Dec-04	46.81	18.15	64.96	2.6387
Jan-05	44.38	18.58	62.96	2.5318

South Carolina Electric & Gas Company Burned Cost-Consumed Generation March 2004 - January 2005

Total Burned Cost	<b>4</b>	27,735,871	26,905,094	41,353,779	40,032,018	42,266,124	39,726,864	31,394,198	26,092,267	27,726,831	32,302,214	36,770,502	372,305,762	
ř	%	8.44%	5.53%	5.91%	2.90%	5.78%	6.14%	7.54%	9.38%	8.55%	6.72%	<b>6.66%</b>	6.80%	6.80%
Nuclear	44	2,341,438	1,486,796	2,443,348	2,363,408	2,441,477	2,441,840	2,365,763	2,446,865	2,370,413	2,170,690	2,447,788	25,319,826	
lowance	%	1.76%	1.51%	0.93%	1.20%	0.96%	1.22%	1.38%	1.15%	1.45%	1.75%	0.83%	1.25%	1.25%
SO2 Emission Allowance	<b>4</b>	488,134	404,810	386,222	480,371	404,864	484,358	433,474	301,225	401,215	566,381	306,076	4,657,130	
ØΙ	%	12.02%	18.20%	40.55%	31.60%	37.65%	29.91%	22.10%	17.06%	20.62%	20.45%	25.03%	26.42%	26.42%
Gas	4	3,334,807	4,897,885	16,768,387	12,647,758	15,914,649	11,881,836	6,938,690	4,451,653	5,718,143	6,606,750	9,202,205	98,362,763	
Propane	%	%	%	%0	%0	%0	%0	%0	%0	%0	%0	%	%0	%0
Pro	4	189	205	157	406	392	8 44	633	483	28	4	48	3,559	
=	<b>%</b>	0.95%	0.30%	1.12%	0.41%	0.84%	0.35%	1.11%	1.68%	0.73%	0.57%	1.58%	0.87%	0.87%
#2 Oil	<b>S</b>	261,931	81,249	463,120	165,260	354,990	138,001	347,625	437,893	201,496	183.939	580,741	3,216,245	
	%	76.83%	74.46%	51.49%	60.89%	54.77%	62.38%	67.87%	70.73%	68.65%	70.51%	65.90%	64.66%	64.66%
Coal	 ••	21.309.372		21,292,545	24.374.815	23,149,752	24.779.985	21,308,013	18.454.148	19.035.506	22 774.310	24,233,644	240,746,239 64.66% 3,216,245 0.87%	ned Cost
Month		Mar-04	Apr-04	May-04	M-mil.	10 mg	Διω-04	Sep-04	AC-toC	MOVON	Dec-04	Jan-05	Totals	는 Percentage (%) of Total Burned Cost

Note: Prepared by the ORS Audit Staff.

## South Carolina Electric & Gas Company Cost of Fuel March 2004 - January 2005

<u>Month</u>	Total Cost of Fuel Burned \$	Purchased and Interchange Power Fuel Cost \$	Fuel Cost Recovered Intersystem Sales \$	Total Fuel Cost
Mar-04	27,735,871	2,619,643	(3,167,578)	27,187,936
Apr-04	26,905,094	7,883,505	(937,114)	33,851,485
May-04	41,353,779	8,364,233	(4,968,984)	44,749,028
Jun-04	40,032,018	9,364,118	(4,979,530)	44,416,606
Jul-04	42,266,124	11,498,396	(6,153,718)	47,610,802
Aug-04	39,726,864	10,259,900	(6,215,664)	43,771,100
Sep-04	31,394,198	9,630,390	(4,140,731)	36,883,857
Oct-04	26,092,267	10,713,083	(3,159,210)	33,646,140
Nov-04	27,726,831	9,723,820	(4,465,823)	32,984,828
Dec-04	32,302,214	10,233,150	(6,532,888)	36,002,476
Jan-05	36,770,502	11,845,383	(8,107,274)	40,508,611
Totals	372,305,762	102,135,621	(52,828,514)	421,612,869

### South Carolina Electric & Gas Company **Factor Computation** March 2004 - January 2005

**Total System** Sales **Base Cost Per** Fuel Excluding Fuel Cost per KWH Included in Adjustments Intersystem Total Fuel Per KWH **KWH Sales Rates Sales** Month Costs \$/KWH **KWH** \$/KWH \$/KWH \$ (0.00164)0.01678 0.015140 Mar-04 27,187,936 1,795,784,607 0.01678 0.00439 0.021172 1,598,901,484 Apr-04 33,851,485 0.00668 0.01821 0.024889 44,749,028 1,797,954,971 May-04 0.00164 0.019849 0.01821 44,416,606 2,237,720,577 Jun-04 0.01821 0.00254 2,295,097,885 0.020745 Jul-04 47,610,802 0.01821 0.00126 0.019473 43.771,100 2,247,839,912 Aug-04 (0.00019)0.018021 0.01821 2.046,684,165 36,883,857 Sep-04 0.01821 0.00062 0.018827 Oct-04 33,646,140 1,787,092,704 0.00144 0.01821 0.019651 Nov-04 32,984,828 1,678,565,193 0.00183 0.01821 1,796,540,265 0.020040 Dec-04 36,002,476 0.00278 0.01821 0.020986 1,930,223,247 Jan-05 (1) 40,508,611 0.00335

#### (1) Old Base Factor

Jan-05 (2)

40,508,611

(2) New Base Factor (Reflects the Commission approved rate of 0.01764, per Commission Order No. 2005-2, which is the Old Base Factor of \$0.01821 less the reduction of \$0.00057/Kwh. This reflects the removal of the Jasper Plant's Fixed Capacity Charge from the fuel clause).

1,930,223,247

0.020986

0.01764

South Carolina Electric & Gas Company Computation of Unbilled Revenue March 2004 - April 2005

				ACTUAL		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	March	April	May	June	July	August	September
	2004	2004	2004	2004	2004	2004	2004
Fossil Fuel Burned	25,394,433	25,418,298	38,910,431	37,668,610	39,824,647	37,285,024	29,028,435
Nuclear	2,341,438	1,486,796	2,443,348	2,363,408	2,441,477	2,441,840	2,365,763
Purchase & Interchange Pwr.	2,619,643	7,883,505	8,364,233	9,364,118	11,498,396	10,259,900	9,630,390
Sub-total Sub-total	30,355,514	34,788,599	49,718,012	49,396,136	53,764,520	49,986,764	41,024,588
Less: Intersystem Sales	3,167,578	937,114	4,968,984	4,979,530	6,153,718	6,215,664	4,140,731
Total Fuel Costs	27,187,936	33,851,485	44,749,028	44,416,606	47,610,802	43,771,100	36,883,857
Total System KWH Sales Excluding Intersystem Sales	1,795,784,607	1,598,901,484	1,797,954,971	2,237,720,577	2,295,097,885	2,247,839,912	2,046,684,165
\$/KWH Sales	0.015140	0.021172	0.024889	0.019849	0.020745	0.019473	0.018021
L Less: Base	0.016780	0.016780	0.018210	0.018210	0.018210	0.018210	0.018210
Fuel Adjustment Per KWH	0.00164	(0.00439)	(0.00668)	(0.00164)	(0.00254)	(0.00126)	0.00019
Unbilled Revenue KWH Sales	1,683,013,354	1,489,107,437	1,656,214,266	2,091,538,341	2,137,305,492	2,100,838,843	1,922,685,836
Deferred Fuel Entry	2,760,142	(6,537,182)	(11,063,511)	(3,430,123)	(5,428,756)	(2,647,057)	365,310
Company's True-Up Adjustments (Prior Months) (2)	(649,677)	117,811	25,433,968	•	(83,662)	21,373	•
Less: Fixed Capacity Charge (3)	673,417	673,417	673,417	673,417	673,417	673,417	673,417
February 2004 - (1)	\$ (20,532,261) (1)						
Cumulative Over/(Under) Recovery	(17,748,379)	(23,494,333)	(8,450,459)	(11,207,165)	(16,046,166)	(17,998,433)	(16,959,706)

## Please Note:

In Audit Exhibit JRC-7, ORS reflects Over-Recovery amounts without parentheses and reflects (Under)-Recovery amounts within parentheses.

ORS would like to emphasize that the Urquhart Plant (Combined Cycle) Fixed Capacity Charge monthly amount of \$ 673,417 is treated, per PSC Order No. 2003-38, on a retail basis as a reduction to the monthly Deferred Fuel Entries. The Jasper Plant (Combined Cycle) Fixed Capacity Charge monthly amount of \$910,167, prorated for January 2005, is also treated, per PSC Order No. 2005-2, on a retail basis as a reduction to the monthly Deferred Fuel Entries.

\*Explanation of Footnotes on Audit Exhibit JRC-7, Page 3 of 4 and Page 4 of 4.

South Carolina Electric & Gas Company Computation of Unbilled Revenue March 2004 - April 2005

		AC	ACTUAL				ESTIMATED	
				Old Base Factor	New Base Factor			
	October	November	December	January	January	February	March	April
	2004	2004	2004	2005	2005	2005	2005	2005
Fossii Fuel Burned	23.645.402	25,356,418	30,131,524	34,322,714	34,322,714	25,593,000	23,790,000	28,923,000
Nuclear	2,446,865	2,370,413	2,170,690	2,447,788	2,447,788	2,049,000	2,274,000	1,683,000
Purchase & Interchange Pwr	10.713.083	9,723,820	10,233,150	11,845,383	11,845,383	13,013,000	13,820,000	11,634,000
Sub-total	36,805,350	37,450,651	42,535,364	48,615,885	48,615,885	40,655,000	39,884,000	42,240,000
Less: Intersystem Sales	3,159,210	4,465,823	6,532,888	8,107,274	8,107,274	3,592,000	2,267,000	3,848,000
Total Fuel Costs	33,646,140	32,984,828	36,002,476	40,508,611	40,508,611	37,063,000	37,617,000	38,392,000
. Total System KWH Sales Excluding Intersystem Sales	1.787.092.704	1,678,565,193	1,796,540,265	1,930,223,247	1,930,223,247	1,844,000,000	1,753,000,000	1,677,000,000
18 AWAN Sales	0.018827	0.019651	0.020040	0.020986	0.020986	0.020099	0.021459	0.022893
- Dave	0.018210	0.018210	0.018210	0.018210	0.017640	0.017640	0.017640	0.017640
Fuel Adjustment Per KWH	(0.00062)	(0.00144)	(0.00183)	(0.00278)	(0.00335)	(0.00246)	(0.00382)	(0.00525)
Uphilled Revenue KWH Sales	1.678.212.713	1,564,978,859	1,675,018,617	992,713,974	809,834,180	1,722,000,000	1,641,000,000	1,565,000,000
Deferred Fuel Entry	(1,040,492)	(2,253,570)	(3,065,284)	(2,759,745)	(2,712,945)	(4,236,120)	(6,268,620)	(8,216,250)
Company's True-Up Adjustments (Prior Months) (2)		1,625,842	83,459	•	•	•	•	•
Less: Fixed Capacity Charge (3)	673,417	673,417	673,417	370,379	712,613	1,583,584	1,583,584	1,583,584
September 2004 - (p. 1 of 4 ) Cumulative Over/(Under) Recovery	(16,959,706)	(17,281,092)	(19,589,500)		(23,979,198)	(26,631,734)	(31,316,770)	(37,949,436)

In Audit Exhibit JRC-7, ORS reflects Over-Recovery amounts without parentheses and reflects (Under)-Recovery amounts within parentheses.

ORS would like to emphasize that the Urquhart Plant (Combined Cycle) Fixed Capacity Charge monthly amount of \$673,417 is treated, per PSC Order No. 2003-38, on a retail basis as a reduction to the monthly Deferred Fuel Entries. The Jasper Plant (Combined Cycle) Fixed Capacity Charge monthly amount of \$910,167, prorated for January 2005, is also treated, per PSC Order No. 2005-2, on a retail basis as a reduction to the monthly Deferred Fuel Entries.

\*Explanation of Footnotes on Audit Exhibit JRC-7, Page 3 of 4 and Page 4 of 4.

## South Carolina Electric & Gas Company Computation of Unbilled Revenue March 2003 – April 2005

## **Explanation of Footnotes to Audit Exhibit JRC-7:**

- (1) The ORS Audit Staff's cumulative (under)-recovery balance brought forward from February 2004 of (\$20,532,261), as reflected on this exhibit, consists of two amounts. The first amount, which is (\$15,099,348), is the amount of the cumulative (under)-recovery balance as of February 2004, as shown on the PSC "Commission Staff Report" (Audit Exhibit G-Page 2 of 4), from SCE&G's last fuel review period (actual March 2003 – February 2004), Docket No. 2004-2-E. During the Company's last S.C. Fuel Adjustment Clause hearing, the Company and the Consumer Advocate agreed upon a stipulation concerning two previous dockets' fuel costs. The PSC Audit Staff agreed with the stipulation and the Commission approved the stipulation. In order to reflect the agreement to the stipulation, the PSC Audit Staff agreed that the PSC Staff's carry-forward cumulative (under)-recovery difference from the Company of (\$5,432,913), from one of the previously contested dockets (Docket No. 2003-2-E), would be reconciled to the Company's actual February 2004 cumulative (under)recovery balance. Therefore, the second amount is the carry-forward (under)-recovery Company vs. Staff difference of (\$5,432,913) added to Staff's original cumulative (under)recovery balance as of February 2004 of (\$15,099,348). Both figures are from the last fuel hearing. The sum of the two aforementioned amounts reflects the amount at the beginning of this exhibit, (\$20,532,261). This amount, which is the same amount shown by the Company as its beginning over (under)-recovery balance from February 2004 for this review period, also reflects the settlement of any previous fuel dockets.
- (2) In March, April, May, July, August, November and December 2004, the Company had trueups due to various Company corrections and revisions to costs such as Fossil Fuel Costs, SO<sub>2</sub> Emissions Allowances and Purchased Power (Purchases and Sales) Costs. The amount applicable to the PSC-approved Stipulation of SCE&G and the Consumer Advocate, per the last fuel review period, of \$25,618,063 is reflected in the May 2004 true-up adjustments as a reduction to the Fuel Adjustment Clause.
- (3) For each month of the review period, the Urquhart Plant Fixed Capacity Gas Transportation Charge of \$673,417 is deducted, on a retail basis, from each monthly deferred fuel entry per PSC Order No. 2003-38. That PSC Order stated that these Fixed Gas Transportation Capacity Charges would be removed from the S.C. Fuel Adjustment Clause to allow recovery of these charges through base rates (per rate case), rather than through the clause. These charges are fixed monthly charges that do not vary with the consumption of natural gas. As stated in PSC Order No. 2003-38, these charges should "be included in base rates"

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#### **Explanation of Footnotes to Audit Exhibit JRC-7:**

### (3) (Continued)

because of the fixed nature of the obligations." As of January 2005, the Jasper Plant Fixed Capacity Charge monthly retail amount of \$910,167, prorated for January 2005, is also treated on a retail basis as a reduction to the monthly Deferred Fuel Entries, per PSC Order No. 2005-2 (the Company's latest rate case order, effective January 6, 2005). Based on PSC Order No. 2005-2, as of January 6, 2005, the current review period's fuel factor was reduced by \$0.00057/kwh to reflect the removal of the Jasper Plant's Fixed Capacity Charge from the fuel clause calculations. Based on the same rationale as PSC Order No. 2003-38, the Jasper Plant Fixed Capacity Charges would be removed from the S.C. Fuel Adjustment Clause to allow recovery of these charges through base rates (per rate case), rather than through the clause. These charges are fixed monthly charges that do not vary with the consumption of natural gas. As stated in PSC Order No. 2005-2, these charges should "be included in base rates because of the fixed nature of the obligations." Therefore, in January 2005 two base fuel factors are reflected, the Old Base Fuel Factor (before PSC Order No. 2005-2) of \$0.01821 and the New Base Fuel Factor (as of PSC Order No. 2005-2, dated January 6, 2005) of \$0.01764 (\$0.01821 less \$0.00057). January 2005 Retail KWH Sales were prorated according to those Retail KWH Sales applicable to the Old Base Fuel Factor and to the New Base Fuel Factor. It was determined that 55% of the January 2005 Retail KWH Sales are applicable to the Old Base Fuel Factor and 45% are applicable to the New Base Fuel Factor. Using these prorated percentages, ORS Audit Staff and the Company then prorated the Fixed Capacity Charges of the Urquhart Plant and the Jasper Plant. In January 2005, under the Old Base Fuel Factor, the prorated amount for the Urquhart Plant was \$370,379 (\$673,417 x 55%). Under the New Base Fuel Factor, the prorated amount for the Urquhart Plant was \$303,038 (\$673,417 x 45%). The Jasper Plant prorated amount totaled \$409,575 (\$910,167 x 45%). The grand total for the Urquhart and Jasper Plants under the New Base Fuel Factor totaled \$712,613.

It should be noted that ORS's cumulative (under)-recovery of fuel costs as of actual January 2005 totaled (\$23,979,198). The Company's cumulative (under)-recovery total as of actual January 2005 totaled (\$24,190,208). The difference between the Company's and ORS's cumulative (under)-recovery as of actual January 2005 totals \$211,010. This difference is based on the Company originally using another methodology to prorate the Fixed Capacity Charges. However, the Company, in its testimony in Docket No. 2005-2-E {Exhibit No. – (JRH-1)}, reflects a true-up adjustment in estimated February 2005 of \$211,009, which reconciles within a \$2 rounding difference (\$1 from January 2005's \$211,010 vs. \$211,009 difference; and \$1 from February 2005). The cumulative (under)-recovery balance as of estimated February 2005 of the Company totaled (\$26,631,736) and the ORS totaled (\$26,631,734).